

WHAT IS CLAIMED IS:

1. A method of reproducing still picture data and audio data from a recording medium, comprising:

decoding still picture data and the audio data reproduced from the recording medium based on respective, independent system times (STCs).

2. The method of claim 1, further comprising:

generating a first STC for the still picture data based on the still picture data reproduced from the recording medium; and

generating a second STC for the audio data based on the audio data reproduced from the recording medium.

3. The method of claim 2, wherein

the generating the first STC step generates the first STC from program clock references (PCRs) in the still picture data; and

the generating the second STC step generates the second STC from PCRs in the audio data.

4. The method of claim 3, wherein the decoding step decodes the still picture data and the audio data based on the first and second STCs, respectively, and presentation time stamps (PTSs) in the respective still picture and audio data.

5. The method of claim 1, wherein the decoding step decodes the still picture data and the audio data based on the respective, independent STCs, and presentation time stamps (PTSs) in the respective still picture and audio data.

6. The method of claim 1, further comprising:

reproducing transport streams of the still picture and audio data;

demultiplexing the transport streams into the still picture data and the audio data to obtain first program clock references (PCRs) from the still picture data and second PCRs from the audio data;

generating first and second STCs from the first and second PCRs, respectively; and wherein

the decoding step includes,

decoding the demultiplexed still picture data based on the first STCs, and

decoding the demultiplexed audio data based on the second STCs.

7. The method of claim 1, wherein

the demultiplexing step further obtains first presentation time stamps (PTSs) for the still picture data and second PTSs for the audio data; and

the decoding the demultiplexed still picture data decodes the still picture data based on the first STCs and the first PTSs; and

the decoding the demultiplexed audio data decodes the audio data

based on the second STCs and the second PTSs.

8. The method of claim 1, further comprising:

reproducing at least one playlist from the recording medium, the playlist including at least one playitem and at least one sub-playitem, the playitem providing navigation information for reproducing at least the still picture data from a first file, the sub-playitem providing navigation information for reproducing the audio data from a second file;

reproducing the still picture data from the first file based on the navigation information in the playitem; and

reproducing the audio data from the second file based on the navigation information in the sub-playitem.

9. The method of claim 8, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture data and related data associated with the still picture data; and

the reproducing the still picture data step reproduces the presentation data.

10. The method of claim 9, wherein the presentation data does not include audio data.

11. The method of claim 9, wherein the related data includes at least one of graphics data and subtitle data.

12. The method of claim 9, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

13. The method of claim 12, wherein the presentation data is multiplexed into a transport stream on a still picture unit by still picture unit basis.

14. The method of claim 13, wherein each elementary stream of the presentation data are aligned within the still picture unit.

15. The method of claim 14, wherein each elementary stream is a packetized elementary stream.

16. The method of claim 15, wherein each still picture unit includes one packet from each packetized elementary stream.

17. The recording medium of claim 13, further comprising:

reproducing a clip information file from the recording medium, the clip information file including at least one entry point map, the entry point map including at least one entry point providing at least an address of a still

picture in the still picture data; and wherein

the reproducing the still picture data step reproduces the still picture data from the first file based on the navigation information in the playitem and entry point map.

18. The recording medium of claim 17, wherein the entry point map includes an entry point associated with each still picture unit.

19. The method of claim 9, wherein the playlist further includes at least one playlist mark pointing to a still picture in the still picture data.

20. The method of claim 9, wherein the playlist mark provides information on a duration to reproduce the still picture pointed to by the playlist mark.

21. method of claim 1, further comprising:

reproducing at least one playlist from the recording medium, the playlist file including at least one playitem and at least one sub-playitem, the playitem providing navigation information for reproducing at least still picture stream from a first data stream, the sub-playitem providing navigation information for reproducing an audio stream from a second data stream separate from the first data stream;

reproducing a portion of the first data stream as the still picture data based on the navigation information in the playitem; and

reproducing a portion of the second data stream as the audio data based on the navigation information in the sub-playitem.

22. The method of claim 21, wherein the first data stream is a transport stream.

23. The method of claim 22, wherein the transport stream includes packetized elementary streams of the still picture data and related data.

24. A method of reproducing still picture data and audio data from a recording medium, comprising:

generating a first STC for the still picture data based on the still picture data reproduced from the recording medium;

generating a second STC for the audio data based on the audio data reproduced from the recording medium;

decoding the still picture data reproduced from the recording medium based on the first STC; and

decoding the audio data reproduced from the recording medium based on the second STC.

25. An apparatus for reproducing still picture data and audio data from a recording medium, comprising:

a decoder decoding the still picture data based on a first system time

(STCs); and

a decoder decoding the audio data based on a second STC,
independent of the first STC.